

08/05/03

Preliminary Classification:

-Proposed Class:

. .

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preliminary class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example "Proposed Class 2, subclass 129." M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventor(s): Brage Golding, Connie Bednarski-Meinke and Zhong-ning Dai WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"II) The inventorabje of a nonprovisional application is that inventorabje set forth in the oath or acclusation as prescribed by § 1.63, except as provided for in § 1.53(4)(4) and § 1.63(4), and an other or declaration as prescribed by § 1.63 in not filed during the pendency of a nonprovisional application, the inventorabje is that inventorabje as from the application papers filed pursuant to § 1.53(b), unless a position under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title): HETEROEPITAXIAL DIAMOND AND DIAMOND NUCLEI PRECURSORS

EXPRESS MAILING UNDER 37 C.F.R. § 1.10* (Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date $\frac{August}{5}_{r}$, $\frac{2003}{2000}$, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 as "Express Mail Post Office to Addresses" Mailling

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(type or print name of person mailing paper)

Lagy X. Casper
Signature of person certifying

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"WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mall mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granded on petition." Notice of Oct. 24, 1996, 60 Fed. Rep. 56,439, at 56,442.

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1. Type of Application

w

T-1-	 application	1- 4	 ٠.

(check one applicable item below)

X	Original (nonprovisional)
	Design
	☐ Plant
ARNING.	Do not use this transmittal for a completion in the U.S. of an International Application under S U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation continuation-in-part application.
VRNING	: Do not use this transmittal for the filing of a provisional application.
TF	one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATIO ANSMITTAL WHERE BENEFT OF A PRIOR U.S. APPLICATION CLAIMED And a NOTIFICATIO PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	Divisional.
П	Continuation.

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: "A nonprovisional application or international application designating the United States of America may claim an invention disclosed in one or more prior-field oppending nonprovisional applications or international applications designating the United States of America. In order for an application to claim the benefit of a prior-field oppending nonprovisional application or international application designating the United States of America, each prior-field application must mame as an inventor at least one inventor named in the later-field application in the later-field application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-field application must be:

(i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or

(ii) Complete as set forth in § 1.51(b); or

Continuation-in-part (C-I-P).

(iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1,16; or

(iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c), 635 U.S.C. §§ 120, 121 or 365(c), 635 U.S.C. §§ 120, 121 or a filing the second of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 110, 356(a) or 365(b) for a c+p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1958, 60 Fed. Reg. 20, 195, at 20, 205, 2015, at 20, 205.

WARNING: 37 C.F.R. § 1.78(a)(2) deals with the time in which the claim for the benefit of an earlier filling date must be made and states:

"(2)(i) Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application in international application designating the thriet States of America claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14).

(ii) This reference must be submitted during the pendency of the later-flied application. If the Inter-flied application is an application filed under 3 S. U.S. C. 11(a), this reference must also be submitted within the later of four months from the actual filing date of the later-flied application or skeen months from the fling date of the prior-flied application. If the later-flied application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S. C. 37 this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S. C. 37(b) or (f) in the later-flied international application or statem months from the filling date of the prior-flied application in international application or statem months from the filling date of the prior-flied application in the statem months from the filling date of the prior-flied application in the statement of the prior-flied application is considered a waiver of any benefit under 35 U.S.C. 120, 121, or 365(c) to such prior-fled application. The time periods in this baragraph do not apply if the later-flied application.

- (A) An application for a design patent;
- (B) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
- (C) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000,

(iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title.

(ef) The request for a continued prosecution application under § 1.53(d) is the specific reference required by 35 U.S.C. 120 to the prior-filled application. The identification of an application application number under this section is the identification of every application assigned that application number necessary for a specific reference required by 35 U.S.C. 120 to every such application assigned that application number.*

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICA-TIONIST CLAIMED.

- The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
- 3. Papers Enclosed
 - A. Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
 - _36_Pages of specification
 - _5__Pages of claims
 - 23. Sheets of drawing

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, while, smooth, and non-shirp paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R.§ 1.84, see Notice of March 9, 1988 (1980 O.G.

57-62). (New Application Transmittal [4-1]—page 3 of 15)

NOTE:	"Identification of drawings. Identifying indicia, if provided, should include the title of the invention, inventor's name and application number, or docket number (if any) if an application number has not been assigned to the application. It this information is provided, it must be placed on the front of each sheet and centered within the top margin."
	(complete the following, if applicable)
. [The enclosed drawing(s) are photograph(s).
NOTE:	37 C.F.R. 1.84
	"(b) Photographs.
	"(1) Black and white. Photographs, including photocopies of photographs, are not ordinarily permitted in utility and edsign patent applications. The Office will accept photographs in utility and design patent applications, however, if photographs are the only practicable modium for illustrating the claimed invention. For example, photographs or photomicrographs or electrophoresis gelgs, blots (e.g., immunological, western, Southern, and northern), auto radiographs, cell cultures (stained and unstained), lathicological tissue cross sections stained and unstained, animals, plants, in who imaging, thin layer chromatography plates, crystaline structures, and, in a design patent application, ornamental effects, are acceptable. If the subject matter of the application admits of illustration by a drawing, the examiner may require a drawing in place of the photograph. The photographs must be of sufficient quality so that all details in the photographs are reproducible in the printed patent.
	"(2) Color photographs. Color photographs will be accepted in utility and design patent applications if the conditions for accepting color drawings and black and white photographs have been satisfied. See paragraphs (a)(2) and (b)(1) of this section."
C	The enclosed drawing(s) are in color, Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).
NOTE:	37 C.F.R. 1.84(a)
	"(2) Color. On rue occasions, color drawings may be necessary as the only practical medium by which to disclose the subject matter sought to be patented in a utility or design patent application or the subject matter of a statutory invention registration. The color drawings must be of sufficient quality such that all details in the drawings are reproducible in black and white in the printed patent. Color drawings are not permitted in international applications (see PCF Rule 11.13), or in an application, or copy thereof, submitted under the Office electronic filling system. The Office will accept color drawings in utility or design patent applications and statutory invention registrations only after granting a petition filled under this paragraph explaining why the color drawings are necessary. Any such petition must include the following:
	(i) The fee set forth in § 1.17(h);
	(ii) Three (3) sets of color drawings;
	(iii) A black and white photocopy that accurately depicts, to the extent possible, the subject matter shown in the color drawing; and
	(iv) An amendment to the specification to insert (unless the specification contains or has been previously amended to contain) the following language as the first paragraph of the brief classription of the drawings:
	The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.*
] formal .
5	informal
B. C	ther Papers Enclosed
_	7 Pages of declaration and power of attorney
_	1 Pages of abstract
_	Other

4. Addit	ional papers enclosed
	Amendment to claims
	 Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
	 Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
	Preliminary Amendment
×	Information Disclosure Statement (37 C.F.R. § 1.98)
	7 C.F.R. § 1.97 (b) An information disclosure statement shall be considered by the Office if filed by the applicant within any one of the following time periods:
	(1) Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
	(2) Within three months of the date of entry of the national stage as set forth in \S 1.491 in an international application;
	(3) Before the mailing of a first Office action on the merits; or
WARNING	3: In order to ensure consideration of information previously submitted but which has not been considered in the parent application, an applicant must resument the information, complying with 37 C.F.R. § 1.93 and 37 C.F.R. § 1.98, in the continuing application filled under 37 C.F.R. § 1.53(b). See § 609(B), M.P.E.P. 7 th Edition, Rev. 1.
X	Form PTO-1449 (PTO/SB/08A and 08B)
×	Citations
	Declaration of Biological Deposit
	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
	Authorization of Attomey(s) to Accept and Follow Instructions from Representative
	Special Comments
	Other
5. Decla	ration or oath (including power of attorney)
tt b a, tt b b d	newly executed declaration is not required in a continuation or divisional application provided that se prior nonprovisional application contained a declaration as required, the application behing filled is y all or fewer than all the inventors named in the prior application, there is no new matter in the optication behing filled, and a copy of the executed declaration filed in the prior application (showing esignature or an indication thereon that it was signed) is submitted. The copy must be accompanied y a statement requesting deletion of the names of person(s) who are not inventors of the application eling filled. If the declaration in the prior application was filled under § 1.47, then a copy of the acclaration must be filled accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning erson under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently recurred declaration must be filled. See 37 C.F.R. §§ 1.63(0[1)—0].

oecaration must be mise accompanied by a copy of the decision graining § 1-75 states or, in a montgraing person under § 1.47 has subsequently plined in a prior application, then a copy of the subsequently executed declaration must be filed. See §7 C.F.R. §§ 1.63(d)(1)-§3).

NOTE: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the Inventor is a sole or joint inventor, §7.

C.F.R. § 1.63(a)(1)-(4).

NOTE: "The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.62, except as provided for in § 1.53(a)(4) and § 1.63(a). If an oath or declaration as prescribed by § 1.63 is not filled during the pendency of a nonprovisional application, the inventorship is that inventorship is forth in the application papers filled pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(b) is filed supplying or changing the name or names of the inventor or inventors, "37 C.F.R. § 1.14(a)(1).

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X	End	closed
	Exe	ecuted by
		(check all applicable boxes)
	\mathbf{x}	inventor(s). (Brage Golding)
		legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.
	Ö	joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
		☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.
	Not	Enclosed.
1	the U.S may be	the filing is a completion in the U.S. of an International Application or where the completion of a application contains subject matter in addition to the International Application, the application treated as a continuation or continuation-in-part, as the case may be, utilizing AODED PAGE EW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
		Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).
(The d	declar	ation or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
		☐ Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1,41(d))
. Inven	ntorsh	ip Statement
WARNIN	OV	the named inventors are each not the inventors of all the claims an explanation, including the mership of the various claims at the time the last claimed invention was made, should be bruitted.
The inv	ventor	ship for all the claims in this application are:
X	The	same.
		or
		the same. An explanation, including the ownership of the various claims at time the last claimed invention was made, $ \\$
		is submitted.
		will be submitted.
. Lang	uage	
,	An Eng equired	lication including a signed eath or declaration may be filed in a language other than English. lish translation of the non-English language application and the processing fee of \$130.00 I by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may by the Office. 37 C.F.R. § 1.52(d).
X	Eng	lish
	Nor	n-English
		The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).

8. Assig	nme	nt		Boai	d of	Trustee	s of
X	An	assignment	of the inve	ention to M1CI	nigan	State U	niversity
	2	38 Admini	strati	on Buildir	ng, Ea	st Lans	ing, Michigan
			OMPANY	ING NEW PATE			GNMENT (DOCU- or ☐ FORM PTO
	\boxtimes	will follow.					
				new application, s of May 4, 1990 (one for the application
WARNING				TE UNDER 37 C.F.F. n assignee. Notice			d when a continuation- O.G. 62-64.
	Thi	sisa □co	ntinuation	divisional	applica	tion and the	assignment
	doc	cument for th	e parent a	pplication 0 /			was filed
	on						
							Reel
						F	rame
9. Certifi	ed C	Conv					
		py(ies) of app	lication(s)				
Countr	у			Appln. No.			Filed
Countr	у			Appln. No.			Filed
Countr	y			Appln. No.			Filed
from whic	h pr	iority is claim	ed				
	is (are) attached					
	will	follow.					
NOTE: 37 C.F.R. § 1.55 Claim for foreign priority.				niority.			
	"(a) '	•••					
	durin of th	g the pendency e application or	of the applica sixteen mon	ation, and within the	later of fe	our months from e prior foreign	ity must be presented in the actual filing date application. This time ich priority is claimed,

as well as any foreign application for the same subject matter and having a filing date before that of the application for which priority is claimed, by specifying the application number, country (or intellectual property authority), day, month, and year of its filing. The time periods in this paragraph

do not apply in an application under 35 U.S.C. 111(a) if the application is:

(A) A design application; or (B) An application filed before November 29, 2000.

(c) Unless such claim is accepted in accordance with the provisions of this paragraph, any claim for priority under 35 U.S.C. 119(a)-(d) or 365(a) not presented within the time period provided by paragraph (a) of this section is considered to have been waived. If a claim for priority under 35 U.S.C. 119(a)-(d) or 365(a) is presented after the time period provided by paragraph (a) of this section, the claim may be accepted if the claim identifying the prior foreign application by specifying its application number, country (or Intellectual property authority), and the day, month, and year of its filing was unintentionally delayed. A petition to accept a delayed claim for priority under 35 U.S.C. 119(a)-(d) or 365(a) must be accompanied by:

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- (1) The claim under 35 U.S.C. 119(a)-(d) or 365(a) and this section to the prior foreign application, unless previously submitted:
 - (2) The surcharge set forth in § 1.17(t); and
- (3) A statement that the entire delay between the date the claim was due under paragraph (a)(1) of this section and the date the claim was filled was unintentional. The Commissioner may require additional information where there is a question whether the delay was unintentional."
- NOTE: 37 C.F.R. § 1.63 Oath or declaration.

"(a) An oath or declaration filed under § 1.51(b)(2) as a part of a nonprovisional application must:

(c) Unless such information is supplied on an application data sheet in accordance with § 1.76, the oath or declaration must also identify:

(2) Any foreign application for patent (or inventor's conflicate) for which a claim for priority is made pursuant to § 1.55, and any foreign application having a filling date before that of the application on which priority is claimed, by specifying the application number, country, day, month, and year of its filling.*

The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 C.F.R. § 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or international Application from which this application claims benefit under 3 st U.S.c. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

10. Fee Calculation (37 C.F.R. § 1.16)

A. Regular application

		CI	AIMS AS F	ILED		
Number filed		N	umber Extra	ı	Rate	Basic Fee 37 C.F.R. § 1.16(a) \$750.00
Total Claims (37 C.F.R. § 1.16(c))	17 -	20 =	-0-	×	\$ 18.00	\$0.00
Independent Claims (37 C.F.R. § 1.16(b))	4 -	3 =	1	×	\$ 84.00	\$84.00
Multiple dependent if any (37 C.F.R. §		4		+	\$280.00	\$280.00

- ☐ Amendment cancelling extra claims is enclosed.
- Amendment deleting multiple-dependencies is enclosed.
- Fee for extra claims is not being paid at this time.

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the explication of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency, 37 C.F.R. § 1.16(d.)

Filing Fee Calculation \$1,114.00

В.		Design application (\$330.00—37 C.F.R. § 1.16(f))	
		Filing Fee Calculation	\$
C.		Plant application (\$520.00—37 C.F.R. § 1.16(g))	
		Filing fee calculation	\$
11.	Asse	ertion of Small Entity Status	

- Applicant hereby asserts status as a small entity under 37 C.F.R. § 1.27
- NOTE: 37 C.F.R. § 1.27(c) deals with the assertion of small entity status, whether by a written specific declaration thereof or by payment as a small entity of the basic filing fee or the fee for the entry into the national phase and states:

"(c) Assertion of small entity status. Any party (person, small business concern or nonprofit organization) should make a determination, pursuant to paragraph (f) of this section, of entitlement to be accorded small entity status based on the definitions set forth in paragraph (a) of this section. and must, in order to establish small entity status for the purpose of paying small entity fees, actually make an assertion of entitlement to small entity status, in the manner set forth in paragraphs (c)(1) or (c)(3) of this section, in the application or patent in which such small entity fees are to be paid.

- (1) Assertion by writing. Small entity status may be established by a written assertion of entitlement to small entity status. A written assertion must:
 - (i) Be clearly identifiable:
 - (ii) Be signed (see paragraph (c)(2) of this section); and
 - (iii) Convey the concept of entitlement to small entity status, such as by stating that applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required to assert small entity status, the intent to assert small entity status must be clearly indicated in order to comply with the assertion requirement.
- (2) Parties who can sign and file the written assertion. The written assertion can be signed by:
 - (i) One of the parties identified in § 1.33(b) (e.g., an attorney or agent registered with the Office), § 3.73(b) of this chapter notwithstanding, who can also file the written assertion:
 - (ii) At least one of the individuals identified as an inventor (even though a § 1.63 executed oath or declaration has not been submitted), notwithstanding § 1.33(b)(4), who can also file the written assertion pursuant to the exception under § 1.33(b) of this part; or
 - (iii) An assignee of an undivided part interest, notwithstanding §§ 1.33(b)(3) and 3.73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under § 1,33(b) of this part.
- (3) Assertion by payment of the small entity basic filing or basic national fee. The payment, by any party, of the exact amount of one of the small entity basic filing fees set forth in §§ 1.16(a), (f), (g), (h), or (k), or one of the small entity basic national fees set forth in §§ 1.492(a)(1), (a)(2), (a)(3), (a)(4), or (a)(5), will be treated as a written assertion of entitlement to small entity status even if the type of basic filing or basic national fee is inadvertently selected in error.
 - (i) If the Office accords small entity status based on payment of a small entity basic filing or basic national fee under paragraph (c)(3) of this section that is not applicable to that application, any balance of the small entity fee that is applicable to that application will be due along with the appropriate surcharge set forth in § 1,16(e), or § 1,16(f),
- (ii) The payment of any small entity fee other than those set forth in paragraph (c)(3) of this section (whether in the exact fee amount or not) will not be treated as a written assertion of entitlement to small entity status and will not be sufficient to establish small entity status in an application or a patent."

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WARNING: 37 C.F.R. § 1.27(c)(4): "Assertion required in related, continuing, and reissue applications, Status as a small entity must be specifically established by an assertion in each related, continuing and reissue application in which status is appropriate and desired. Status as a small entity in one application or patent does not affect the status of any other application or patent, regardless of the relationship of the applications or patents. The refiling of an application under § 1.53 as a continuation, divisional, or continuation-in-part application (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application, requires a new assertion as to continued entitlement to small entity status for the continuing or reissue application." WARNING: "Small entity status must not be established when the person or persons signing the . . . statement can unequivocally make the required self-certification." M.P.E.P., § 509.03 (emphasis added). (complete the following, if applicable) Status as a small entity was asserted in the prior application _, from which benefit . filed on is being claimed for this application under: 35 U.S.C. § [7 119(e) □ 120 □ 121 □ 365(c) and which status as a small entity is still proper and asserted for this application. A copy of the written assertion of small entity filed in the prior application is included. NOTE: A refund based on establishment of small entity status, of a portion of fees timely paid in full prior to establishing status as a small entity may only be obtained if an assertion under § 1,27(c) and a request for a refund of the excess amount are filed within three months of the date of the timely payment of the full fee. The three-month time period is not extendable under § 1.136, 37 C.F.R. § 1.28(a). Filing Fee Calculation (50% of A. B or C above) £ 557.00 12. Request for International-Type Search (37 C.F.R. § 1,104(d)) (complete, if applicable) Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

is. ree	Payment being Made	e at this time		
	Not Enclosed			
•		b be paid at this time. urcharge required by 37 C.F.R.	§ 1.16(e) can be paid	
₩.	Enclosed			
	☑ Filing fee		\$ <u>557.00</u>	
	•	R. § 1.21(h)) COVER SHEET FOR CCOMPANYING NEW	\$	5*
	inventors or pers where inventor re reached	iling by other than all the son on behalf of the inventor efused to sign or cannot be	¢	
	For processing a specification in a non-English lar	an application with a	\$	
	Processing and (\$130.00; 37 C.F	retention fee .R. §§ 1.53(d) and 1.21(l))	\$	
	Fee for internation (\$40.00; 37 C.F.F.	onal-type search report R. § 1.21(e))	\$	
fai 37 eit	iling to complete the applica C.F.R. §§ 1.53 and 1.78(a)	a fee for processing and retaining any app tition pursuant to 37 C.F.R. § 1.53(f) and tit (1), Indicate that in order to obtain the bene t be paid, or the processing and retention under § 53(f).	his, as well as the changes to efit of a prior U.S. application,	
	To	tal fees enclosed	\$ 557.00	
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	Authorization is hereb	y made to charge the amount of	\$	
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	to Credit card as tion form PTO-20	shown on the attached credit card 38.	d information authoriza-	
WARNING.	: Credit card information s	hould not be included on this form as it i	may become public.	
	• .	I fees required by this paper or o zed-above. To Deposit Aco		
	A duplicate of thi	s paper is attached.		
	in the manner authori	zed-above. To Deposit Acc		

(New Application Transmittal [4-1]-page 11 of 15)

15. Authorization to Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

WARNING: Even though small entity status is accorded where the wrong type of small entity basic filing fee or basic national fee is selected but the exact amount of the fee is paid, applicant still needs to pay the correct small entity amount for the basic filing or basic national fee where selection of the wrong type of fee results in a deficiency. While an accompanying general authorization to charge any additional fees suffices to pay the balance due of the proper small entity basic filing or basic national fee, specific authorizations to charge fees under § 1.17 or extension of time fees do not suffice to pay any balance due of the proper small entity basic filing or basic national fee because they do not actually authorize payment of small entity amounts. Charges To implement the Patent Business Goals; Final Fulle [Fed. Reg.: September 8, 2000, pages 54603-54683, at 54611; OG: October 3, 2000, pages 14-39].

- The Office is hereby authorized to charge, in the manner shown above, the following additional fees that may be required by this paper and during the entire pendency of this application.
 - 37 C.F.R. § 1.16(a), (f) or (g) (filing fees)
 - 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the explantion of the time period set for response by the PTO in any notice of fee deficiency (3T C.F.R. § 1.16(b)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

- 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
- 37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).
- 37 C.F.R. § 1.17 (application processing fees)

NOTE: ". A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required tees, fees under § 1.17, or all required extension of time fees will be treated as a constructive potition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time in any concurrent reply requiring a petition for an extension of time in any concurrent reply requiring a petition for an extension of time in any concurrent reply regulations.

37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Section 1.311(b) provides that an authorization to charge the issue fee (§ 1.18) to a deposit account may be filed in an individual application only after the mailing of the notice of allowance. Accordingly, general authorizations to pay fees and specific authorizations to pay the issue fee that are filed prior to the mailing of a notice of allowance will generally not be treated as requesting payment of the issue fee and will not be given effect to act as a reply to the notice of allowance. Applicant, when paying the issue fee, should submit a new authorization to charge fees, such as by completing box 6b on the current PTOL-85B form. Where no reply to the notice of allowance is received, the application will stand abandoned notwithstanding the presence of general authorizations to pay fees or a specific authorization to pay the issue fee that were submitted prior to mailing of the notice of allowance. Where an attempt is made to pay the issue fee but an incorrect amount is submitted, § 1.311(b)(1), or where the Office's issue fee transmittal form (currently PTOL-85(B)) is completed by applicant and submitted, § 1.311(b)(2), in reply to a notice of allowance, an exception will be made. Such submissions will operate as a request to charge the Issue fee to any deposit account identified in a previously filed (i.e., submitted prior to the mailing of the notice of allowance) authorization to charge fees, and will be allowed to act as payment of the correct issue fee. § 1.311(b). See also the change to § 1.26(b). Notice of September 8, 2000, Fed. Reg. 54603-54683, at 54646 and 54647.

16. Instructi ns as to Overpaym nt

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a depost account." 37 C.F.R. § 1.26(a).

☐ Refund

Reg. No. 20,931

Tel. No. (517) 347-4100

Customer No. 21036

SIGNATURE OF PRACTITIONER

Ian C. McLeod
(type or print name of attorney)

2190 Commons Parkway

P.O. Address

Okemos, Michigan 48864

(New Application Transmittal [4-1]-page 13 of 15)

X	Incor	poration by referenc of added pages
	pi st th	heck the following item if the application in this transmittal claims the benefit of for U.S. application(s) (including an international application entening the U.S age as a continuation, divisional or C-I-P application) and complete and attact e ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)
	ヌ	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S Application(s) Claimed
		Number of pages added <u>Five (5)</u>
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s who is/are no longer inventor(s) of the subject matter claimed in this application
		Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application" Number of pages added
	State	ment Where No Further Pages Added
		no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)
		This transmittal ends with this nage

ADDED PAGE(S) FOR SPECIAL COMMENTS FOR NEW APPLICATION TRANSMITTAL

Added page _____

(Added Page(s) for Special Comments for New Application Transmittal [4-1]-page 15 of 15)

ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: See 37 C.F.R. § 1.78.

17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-l-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

Amend the specification by inserting, before the first line, the following sentence:

A. 35 U.S.C. § 119(e)

NOTE: "Any nonprovisional application claiming the benefit of one or more prior filed copending provisional applications must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior provisional application, identifying it as a provisional application, and including the provisional application number (consisting of series code and serial number)." 37 C.F.R. \$ 1.78(a)(4).

"This application claims the benefit of U.S. Provisional Application(s) No(s).:

APPLICATION NO(S).:	FILING DATE
60 / 406,150	08/27/02
/	

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.1]-page 1 of 5)

R. 35 I	U.S.C. §§ 120, 121 and 365(c)	
NOTE:	"Except for a continued prosecution application filed un claiming the benefit of one or more prior filed copendia applications designating the United States of America in first sentence of the specification following the title a refer it by application number (consisting of the series code in number and international filing date and indicating the references to other related applications may be made in § 1.78(a)(2).	g nonprovisional applications or international just contain or be amended to contain in the ance to each such prior application, identifying and serial number) or international application relationship of the applications Cross-
	This application is a	
	□ continuation	
	☐ continuation-in-part	
	☐ divisional	
c	of copending application(s)	
	application number 0 /	filed on"
	international Application	filed on
	and which d	esignated the U.S."
NOTE:	The proper reference to a prior filed PCT application the serial number and the filing date of the PCT application	
NOTE:	(1) Where the application being transmitted adds subject the filing can be as a continuation-in-part or (2) if it is de- can be as a continuation.	
NOTE:	The deadline for entering the national phase in the U.S. in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as	
	The Patent and Trademark Office considers the Interna month from the priority data if the United States has bee Preliminary Examination has been filled prior to the expiral and until the 32nd month from the priority date if a Den which elected the United States of America has been from the priority date, provided that a copy of the inter to the Patent and Trademark Office within the 20 or 30 month period respectively, the International application has not been communicated to 20 or 30 month period respectively, the International applications of the priority date respectively as paragraph (i) of § 1.494 and paragraph (i) of § 1.495. And 120 may be filed anythme during the periodency of	n designated and no Demand for International attender of the 18th month from the priority date trained not the 18th month from the priority date and for International Preliminary Examination likel prior to the supiration of the 19th month national application has been communicated month predict respectively. If a copy of the the Patent and Trademark Office within the licitation becomes abandoned so the United (These periods have been placed in the rules continuing application under \$3 U.S.C. 3650; usonlinuing application u
	The nonprovisional application designated	above, namely application
	, fil	ed, claims the benefit of
	U.S. Provisional Application(s) No(s).:	
APPLIC	EATION NO(S).:	FILING DATE
	./	
	./	n
	Wher more than one r ference is made a	hove pieses combine all references

into one sentence.

18. Relat Ba k-35 U.S. . § 119 Pri rity Claim f r Pri r Application

Th prior U.S. application(s), including any prior international Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(les) as follows:

		Country	Appln. no.	Filed on	-
The	cer	tified copy(ies) has (h	nave)		
		been filed on filed on	in prior application 0	/, which was	
		is (are) attached.			
WAI	RNING	the International Bureau application in the con application communics a U.S. serial number uni stage is not entired. T prosecution of a contin documents from the foll to request transfer, retil enter and make a recor the priority documents.	i may not be nelied on without any ne thruling application. This is so boc total by the International Bureau is a test of the International Sureau is a herefore, such certified copies may using application. An alternative wou does and transfer them to the continul even the folders, make suitable record of such copies in the Continuing A,	a been communicated to the PTO by det of file a certified copy of the priority ause the certified copy of the priority aleaed in a folder and is not assigned in tailors are supposed of if the national not be available if needed later in the did be to physically remove the priority ng application. The resources required notations, transfer the certified copies, optication are substantial. Accordingly, res that have not entered the national of C.G. 32° to 46°.	
9.	Mai	ntenance of Cope	endency of Prior Applica	tion	
NOT	re		papers constituting the filing of the	or application extending the term for e continuation application. Notice of	
A.		Extension of time in	prior application		
	(This		oleted and the papers filed li ad set in the prior application		
		A petition, fee and runtil	response extends the term in	the pending prior application	
		☐ A copy of the	petition filed in prior applicat	ion is attached.	
В.		Conditional Petition	for Extension of Time in Price	or Application	
		(complete ti	his item, if previous item not	applicable)	
		A conditional petition application.	on for extension of time is be	eing filed in the pending prior	
		☐ A copy of the o	conditional petition filed in the	e prior application is attached.	

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.1];—page 3 of 5)

Further Invent r hip Stat ment Wher B n fit f Pri r Appli ati n() laimed

(complete applicable item (a), (b) and/or (c) below)

(a)	図	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are				
		x	the	same.		
				s than those named in the prior application. It is requested that the swing inventor(s) identified for the prior application be deleted:		
			_	(type name(s) of inventor(s) to be deleted)		
(b)		This application discloses and ciaims additional disclosure by amendment ar a new declaration or oath is being filled. With respect to the prior applicatio the inventor(s) in this application are				
			the	same.		
			the	following additional inventor(s) have been added:		
				(type name(s) of inventor(s) to be added)		
(c)		The	inve	entorship for all the claims in this application are		
		X	the	same.		
				the same. An explanation, including the ownership of the various claims he time the last claimed invention was made		
				is submitted.		
				will be submitted.		

21. Abaticonnoise i Filor Application in application
Please abandon th prior application at a time whil the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.
NOTE: According to the Notice of May 13, 1983 (103, TMOG 6-7), the filing f a continuation or continuation-in- part application is a proper response with respect to a petition for extension of time or a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.
22. Petition for Suspension of Prosecution for the Time Necessary to File an Amendment
WARNING: "The claims of a new application may be finally rejected in the first Office action in those situations where (A) the new application is a continuing application, of, or a substitute for, an earlier application, and (B) all the claims of the new application () are drawn to the same invention claimed in the earlier application, and (2) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." M.P.E.P., § 706.07(b), 7th ed.
NOTE: When it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.
(check the next item, if applicable)
 There is provided herewith a Petition To Suspend Prosecution for the Time Necessary to File An Amendment (New Application Filed Concurrently)
23. Small Entity (37 C.F.R. § 1.28(a))
Applicant has established small entity status by the filing of a statement in parent application / on
☐ A copy of the statement previously filed is included.
WARNING: See 37 C.F.R. § 1.28(a).
WARNING: "Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P., § 509.03, 7th ed. (emphasis added).
24. NOTIFICATION IN PARENT APPLICATION OF THIS FILING
☐ A notification of the filing of this (check one of the following)
□ continuation
□ continuation-in-part
☐ divisional
is being filed in the parent application, from which this application claims priority under 35 U.S.C. § 120.
(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.1]—page 5 of 5)

By Application No.	Practiti	n r's Docket No. MSU 4.1-596 PATENT Brage Golding, Connie Bednarski-Meinke and
Application No.	SO Apr	Strage Golding, Connie Bednarski-Merike and
Title: HETEROEPITAXIAL DIAMOND AND DIAMOND NUCLEI PRECURSO) STATEMENT OF STATUS AS SMALL ENTITY (37 C.P.R. § 1.27(a)(3))—NONPROFIT ORGANIZATION I hereby state that I am an official encouvered to act to behalf of the nonprofit organization identified below: Board of Trustees of nonprofit Organization Michigan State University Address of Nonprofit Organization 238 Administration Building East Lansing, Michigan 48824 TYPE OF NONPROFIT ORGANIZATION University or other institution of higher education (located in any country) Tax exempt under Internal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)) Nonprofit scientific or educational under statute of state of the United States of America (35 U.S.C. 201(ii)) (Name of State		
STATEMENT OF STATUS AS SMALL ENTITY (37 C.F.R. § 1.27(a)(3))—NONPROFIT ORGANIZATION I hereby state that I am an official empowered to act on behalf of the nonprofit organization identified below: Board of Trustees of Nonprofit Organization Michigan State University Address of Nonprofit Organization 238 Administration Building East Lansing, Michigan 48824 TYPE OF NONPROFIT ORGANIZATION University or other institution of higher education (located in any country) Tax exempt under inneal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)) Nonprofit scientific or educational under statute of state of the United States of America (35 U.S.C. 201(ii)) (Name of State (Citation of Statute (Would qualify as tax exempt under internal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)), if located in the United States of America Would qualify as Nonprofit Scientific or Educational under statute of state of the United States of America or would be tax exempt under the Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) and 26 U.S.C. 501(a) in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(a) (in Internal Revenue Service Code (26 U.S.C. 501(
(37 C.F.R. § 1.27(a)(3)—NONPROFIT ORGANIZATION I hereby state that I am an official empowered to act on behalf of the nonprofit organization dentified below: Board of Trustees of Invasers of Nonprofit Organization Michigan State University Address of Nonprofit Organization 238 Administration Building East Lansing, Michigan 48824 TYPE OF NONPROFIT ORGANIZATION University or other institution of higher education (located in any country) Tax exempt under Internal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)) Nonprofit scientific or educational under statute of state of the United States of America (35 U.S.C. 201(ii)) (Name of State	Title: _I	HETEROEPITAXIAL DIAMOND AND DIAMOND NUCLEI PRECURSOR
identified below: Board of Trustees of Name of Nonprofit Organization Michigan State University Address of Nonprofit Organization 238 Administration Building East Lansing, Michigan 48824 TYPE OF NONPROFIT ORGANIZATION ☑ University or other institution of higher education (located in any country) ☐ Tax exempt under Internal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)) ☐ Nonprofit scientific or educational under statute of state of the United States of America (35 U.S.C. 201(ii)) (Name of State		
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(Citation of Statute		
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United States of America or would be tax exempt under the Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(c)(S)) if located in the United States of America (Name of State		
(Citation of Statute	ם	United States of America or would be tax exempt under the Internal Revenue Service Code (26 U.S.C. 501(a) and 26 U.S.C. 501(c)(3)) if located in the United
I hereby state that the nonprofit organization identified above qualifies as a nonprofit organization, as defined in 37 C.F.R. § 1.27(a)(8), for purposes of paying reduced fees to he United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, inlited States Code, with regard to the invention described in the specification filed herewith, with title as listed above. the application identified above.		(Name of State)
organization, as defined in 37 C.F.R. § 1.27(a)(5), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, Inited States Code, with regard to the invention described in the specification filed herewith, with title as listed above. the application identified above. the patent identified above.		(Citation of Statute)
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the patent identified above.	₩.	the specification filed herewith, with title as listed above.
-		the application identified above.
(Small Entity-Non-Profit 17-31page 1 of 3)		the patent identified above.
		. (Small Entity—Non-Profit [7-3]—page 1 of 3)

I hereby state that rights under contract or law have been conveyed to, and remain with, the nonprofit organization, with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who would not qualify as a person under 37 C.F.R. § 1.27(a)(1), if that person made the invention, or by any concern that would not qualify as a small business concern under 37 C.F.R. § 1.27(a)(2), or a nonprofit organization under 37 C.F.R. § 1.27(a)(3).

*NOTE: Separate statements should be obtained from each named person, concern or organization having rights to the invention as to their status as small entities.

Ead below		uch perso	n, cond	cern or organization having a	iny rígh	ts in the invention is listed
	8	No such	persor	n, concern, or organization ex	xists.	
		Each suc	h pers	on, concern or organization	is listed	d below.
				SMALL BUSINESS CONCERN	а	NONPROFIT ORGANIZATION
	INDI	VIDUAL		SMALL BUSINESS CONCERN	0	NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any charge in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate, (37 C.F.R. § 1.27(n)(2))

NOTE: The presentation to the Office (whether by signing, filing, submitting, or fatter advocating) of any pace by a part of the Control of State of the Control of State of S

Name of Person Signing
Title in Organization
238 Administration Building, East Lansing, Michigan 48824
SIGNATURE PRAIRIE HURSTON